

ABSTRACT OF THE DISCLOSURE

Provided are methods for determining the presence or amount of testosterone in a test sample, comprising ionizing all or a portion of the testosterone present in the sample to produce one or more testosterone ions that are detectable in a mass spectrometer. All or a portion of the testosterone present in the sample is ionized to produce one or more testosterone ions, which may be isolated and fragmented to produce precursor ions. A separately detectable internal testosterone standard can be provided in the sample. In a preferred embodiment, the reference is 2, 2, 4, 6, 6-d₅ testosterone.